

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

1-9. (Canceled)

10. (New) An apparatus for detecting a rollover event, comprising:
at least one first acceleration sensor in a vertical direction of a vehicle;
at least one second acceleration sensor in at least one horizontal direction of the vehicle;
and

a processor for detecting an inertial event as a function of a first signal of the at least one second acceleration sensor, and after detection of the inertial event, evaluating a second signal from the at least one first acceleration sensor for detecting the rollover event, the processor triggering a restraint device as a function of the first signal and the second signal.

11. (New) The apparatus as recited in Claim 10, wherein:
the processor detects the inertial event one of in the form of the deployment of the restraint device in the event of one of a head-on crash and a lateral crash and as a function of an acceleration signal in one of a longitudinal direction of the vehicle and a transverse direction of the vehicle.

12. (New) The apparatus as recited in Claim 10, wherein:
the processor performs the evaluation by examining characteristics, in that an acceleration in the vertical direction of the vehicle in the inertial event is negative and has a positive gradient.

13. (New) The apparatus as recited in Claim 12, wherein:
the processor evaluates at least one of an acceleration in the transverse direction of the vehicle and a rotation rate about a vehicle longitudinal rate, in order to detect a lateral motion.

14. (New) The apparatus as recited in Claims 12, wherein:
the processor evaluates a vehicle acceleration in the longitudinal direction of the vehicle.

15. (New) The apparatus as recited in Claim 12, further comprising:
a low-pass filter for filtering an acceleration in the vertical direction of the vehicle, in order to extract a gravitational acceleration.
16. (New) The apparatus as recited in Claim 15, wherein:
the at least one first acceleration sensor includes an offset control which is embodied as slow.
17. (New) The apparatus as recited in Claim 10, wherein:
in an absence of a detection of the rollover event, the processor is capable, after the first inertial event, of monitoring for a new inertial event.
18. (New) The apparatus as recited in Claim 10, further comprising:
at least one plausibility sensor.